

Appl. No. 09/763,421
Amdt. dated August 8, 2003
Reply to Office action March 10, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions,
and listings, of claims in the application:

Listing of Claims:

Claims 1-31 (canceled)

E' Claim 32 (new): A light emitting diode
comprising:

a base;

an adhesive containing fluorescent material and
provided on a top surface of said base;

a light emitting diode element firmly fixed to
the top surface of the base by the adhesive, and an upper
surface of the light emitting diode sealed by a resin
seal member;

a resin seal member provided to lap an upper
surface side of the light emitting diode element; and

a recess provided on a top surface of said
base, a plane sphere of the recess being substantially
the same as a sphere of a bottom surface of the light
emitting diode element;

wherein the adhesive is filled into the recess
for fixing the light emitting diode element, and the
inner rim of the recess prevents the adhesive from

E'
flowing away and ensures a predetermined thickness of the adhesive.

Claim 33 (new): The light emitting diode according to claim 32 wherein the recess is constructed from a hole formed in a plate-like top side electrode extending to the position in which the light emitting diode element is place, wherein a plane sphere of the hole is substantially the same as a sphere of a bottom surface of the light emitting diode.

Claim 34 (new): The light emitting diode according to claim 32 wherein a reflecting surface is formed on a bottom side of the adhesive.

Claim 35 (new): A light emitting diode comprising:

a base;

an adhesive containing fluorescent material and provided on a top surface of said base;

a plurality of light emitting diode elements firmly fixed to the top surface of the base by the adhesive, and an upper surface of the light emitting diode elements being sealed by a resin seal member;

at least one of the plurality of light emitting diode elements being a blue light emitting diode element made of a gallium nitride semiconductor or a silicon carbide semiconductor;

E' a resin seal member provided to lap an upper surface side of the light emitting diode elements; and

a recess provided on a top surface of said base, a plane sphere of the recess being substantially the same as a sphere of a bottom surface of the blue light emitting diode;

wherein the adhesive is filled into the recess for fixing the blue light emitting diode element, and the inner rim of the recess prevents the adhesive from flowing away and ensures a predetermined thickness of adhesive.

Claim 36 (new): The light emitting diode according to claim 35 wherein said recess is constructed by a hole formed in a plate-like top side electrode extending to the position in which the blue light emitting diode element is placed, plane sphere of the hole being substantially the same as a sphere of a bottom surface of the blue light emitting diode element.
